

# Cal/Ecotox

## Toxicity Data for Coyote (*Canis latrans*)\*

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| Chemical                  | Tox Exposure  | Endpoint Type  | Endpoint Description   | Endpoint Value                                   | Note | Reference |
|---------------------------|---|--|--|--|------|-----------|
| DIPHACINONE               | 0, 0.16, 0.31, 0.63, 1.25, 2.5, 5.0 and 10.0 mg/kg  | TOX-MORT - toxicity benchmarks                         | LD50   | 0.6 [0.3 - 1.2 (95% CL)] mg/kg                   | a    | 1         |
| LITHIUM CHLORIDE          | 3 or 18 g LiCl/1500 g jackrabbit/d  | TOX-Non-Repro-Sublethal - whole animal                 | body weight gain in nursing pups of mothers fed LiCl contaminated diet                         | decrease @ 18g/1500 g/d                          | b    | 2         |
| PARA-AMINOPROPIONOPHENONE | 3 doses   | TOX-MORT - toxicity benchmarks                         | LD50   | 5.6 [3.0-10.4 (95% CI)] mg/kg                    | c    | 3         |
| PENTACHLOROBENZENE        | 0, 65, 130, 260, 520 mg/animal  | TOX-EXP IND - accumulation                             | figures of feces and serum concentrations over time at the tested doses                        | see citation                                     | d    | 4         |
| PENTACHLOROBENZENE        | 0, 65, 130, 260, 520 mg/animal  | TOX-Non-Repro-Sublethal - cellular/biochemical effects | serum chemistry and hematological profile, compared to control                                 | no effect  | e    | 4         |
| PENTACHLOROBENZENE        | 0, 65, 130, 260, 520 mg/animal  | TOX-Non-Repro-Sublethal - whole animal                 | mean body mass and appearance of eyes, gums, teeth and fur, compared to controls               | no effect  | f    | 4         |
| SODIUM MONOFLUOROACETATE  | 0.055 - 0.094 or 0.240-0.625 mg 1080/kg coyote; estimated doses of "low" or "high" contaminated ground squirrels    | TOX-MORT - dose-response data                          | 5/6 coyotes died after eating squirrels contaminated with 1080 bait (sodium monofluoroacetate) | increase @ 0.240 - 0.625 mg 1080/kg coyote       | g    | 5         |
| SODIUM MONOFLUOROACETATE  | 535-9754 ppb wet wt. fluoroacetate in tissues of poisoned squirrels   | TOX-MORT - dose-response data                          | all coyotes died after ingesting 1-2 ground squirrels poisoned with sodium monofluoroacetate   | increase @ 535-9754 ppb                          | h    | 6         |
| SODIUM MONOFLUOROACETATE  | 6.7 kg/ha; 13.5 ppm in stomach of squirrel  | TOX-MORT - mortality in the field                      | 5/6 radio-equipped coyotes were found dead during post-treatment period                        | increase @ 6.7 kg/ha                             | i    | 7         |
| STRYCHNINE                | 0.275-1.059 or 1.321-2.860 mg strychnine/kg coyote; estimated dose of "low" or "high" contaminated ground squirrels | TOX-MORT - dose-response data                          | 1/4 coyotes died after ingesting contaminated ground squirrels                                 | increase @ 1.321 - 2.860 mg strychnine/kg coyote | j    | 5         |

### Notes

- a Adult; Lab; B; Species - California (R)=*Canis latrans*; TOX - Chemical=82-66-6; TOX - Dose-Response Data Format=DR Table; N=2/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=21 d; Tox Stat Sig=NR; see citation for tissue residue concentration
- b Both Adult and Juv.; Lab; B; Species - California (R)=*Canis latrans*; TOX - Chemical=7447-41-8; N=4 pups/2 adults; Age=10-19d; Tox Exp Tech=diet; Tox Exp Dur=3 d; Tox Study Dur=7 d; Tox Stat Sig=NR; authors note weight gain increased after LiCl was withdrawn from adult diet
- c NR; Lab; NR; Species - California (R)=*Canis latrans*; TOX - Chemical=70-69-9; N=4/dose; Tox Exp Tech=gavage; Tox Exp Dur=single; Tox Study Dur=7 d; Tox Stat Sig=NR; body weight range = 8.2 - 12.7 kg
- d Adult; Lab; B; Species - California (R)=*Canis latrans*; TOX - Chemical=608-93-5; N=3/dose; Age=2 - 12 yrs; Tox Exp Tech=oral via capsule; Tox Exp Dur=single; Tox Study Dur=168 d; Tox Stat Sig=NR
- e Adult; Lab; B; Species - California (R)=*Canis latrans*; TOX - Chemical=608-93-5; N=3/dose; Age=2 - 12 yrs; Tox Exp Tech=oral via capsule; Tox Exp Dur=single; Tox Study Dur=28 d; Tox Stat Sig=N
- f Adult; Lab; B; Species - California (R)=*Canis latrans*; TOX - Chemical=608-93-5; N=3/dose; Age=2 - 12 yrs; Tox Exp Tech=oral via capsule; Tox Exp Dur=single; Tox Study Dur=168 d; Tox Stat Sig=N
- g Adult; Lab; NR; Species - California (R)=*Canis latrans*; TOX - Chemical=62-74-8; N=4-6/dose; Tox Exp Tech=diet; Tox Exp Dur=single; Tox Study Dur=1 d; Tox Stat Sig=NR
- h Pup; Lab; NR; Species - California (R)=*Canis latrans*; TOX - Chemical=62-74-8; N=2; Tox Exp Tech=diet; Tox Exp Dur=12 hr; Tox Study Dur=12 hr; Tox Stat Sig=NR; see citation for residue analysis of dead coyotes
- i NR; Tulare; CA; NR; Species - California (R)=*Canis latrans*; TOX - Chemical=62-74-8; N=6; June; Exeter, Tulare; Tox Exp Tech=field application; Tox Exp Dur=single; Tox Study Dur=10 d; radiotelemetry method; Tox Stat Sig=NR
- j Adult; Lab; NR; Species - California (R)=*Canis latrans*; TOX - Chemical=57-24-9; N=4/dose; Tox Exp Tech=diet; Tox Exp Dur=single; Tox Study Dur=1 d; Tox Stat Sig=NR

### References

- 1 Savarie, P.J., D.J. Hayes, R.T. McBride and J.D. Roberts. 1979. Efficacy and safety of diphenacone as a predaccine, In: Kenaga, E.E., eds. Avian and Mammalian Wildlife Toxicology, ASTM STP No. 693. Philadelphia, PA: American Society for Testing and Materials. p 69-79.
- 2 Burns, Richard J. 1980. Effect of lithium chloride in coyote pup diet. Behav. Neural Biol. 50:350-356.
- 3 Savarie, Peter J., Huo Ping Pan, David J. Hayes, Jerry D. Roberts, Gary J. Dasch, Robert Felton and Edward W. Schafer, Jr. 1983. Comparative acute oral toxicity of para-aminopropiophenone (PAPP) in mammals and birds. Bull. Environ. Contam. Toxicol. 30:122-126.

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- 4      Johnston, John J., Lamar A. Windberg, Carol A. Furcolow, Richard M. Engeman and Marianna Roetto. 1998. Chlorinated benzenes as physiological markers for coyotes. *J. Wildl. Manage.* 62:410-421.  
5      Marsh, Rex E., Robert H. Schmidt and Walter E. Howard. 1987. Secondary hazards to coyotes of ground squirrels poisoned with 1080 or strychnine. *Wildl. Soc. Bull.* 15:380-385.  
6      Casper, Howard H., Michael E. Mount, Rex E. Marsh and Robert H. Schmidt. 1986. Fluoroacetate residues in ground squirrel and coyote tissues due to primary or secondary 1080 poisoning. *J. Assoc. Off. Anal. Chem.* 69:441-442.  
7      Hegdal, Paul L., Kathleen A. Fagerstone, Thomas A. Gatz, James F. Glahn and George H. Matschke. 1986. Hazards to wildlife associated with 1080 baiting for California ground squirrels. *Wildl. Soc. Bull.* 14:11-21.

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